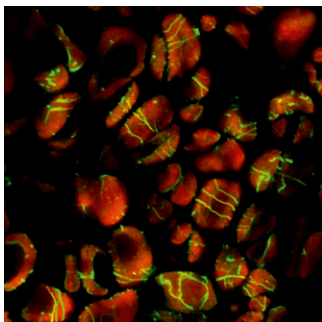


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ON THE COVER



During plant growth and development, chloroplasts divide repeatedly in order to maintain their population. The site of division is specified by the medial placement of the Filamentous temperature sensitive Z (FtsZ) ring. Wilson et al. (pages 2939–2949) show that two mechanosensitive channel homologs, MSL2 and MSL3, are necessary for proper FtsZ ring placement and chloroplast division. The cover shows cauline leaf mesophyll cells of *msl2 msl3* double mutant plants expressing FtsZ1-green fluorescent protein (GFP), which contain grossly enlarged chloroplasts with aberrant FtsZ ring placement. FtsZ1-GFP and chlorophyll fluorescence are represented by pseudo-color green and red, respectively.





IN BRIEF

- The Evolution of Photorespiratory Glycolate Oxidase Activity** 2805
Nancy R. Hofmann
- BIK1 Function in Plant Growth and Defense Signaling** 2806
Nancy A. Eckardt
- MAP65-3 Cross-Links Interdigitated Microtubules in the Phragmoplast** 2807
Kathleen L. Farquharson
- A Surprising Role for Vacuolar Pyrophosphatase** 2808
Gregory Berton

REVIEW

- Transcription Dynamics in Plant Immunity** 2809
John W. Moore, Gary J. Loake, and Steven H. Spoel

RESEARCH ARTICLES

- Conservation and Purifying Selection of Transcribed Genes Located in a Rice Centromere**  2821
Chuanzhu Fan, Jason G. Walling, Jianwei Zhang, Cory D. Hirsch, Jiming Jiang, and Rod A. Wing
- Biochemical and Genetic Requirements for Function of the Immune Response Regulator BOTRYTIS-INDUCED KINASE1 in Plant Growth, Ethylene Signaling, and PAMP-Triggered Immunity in *Arabidopsis***   2831
Kristin Laluk, Hongli Luo, Maofeng Chai, Rahul Dhawan, Zhibing Lai, and Tesfaye Mengiste
- Functional Analysis of All AGAMOUS Subfamily Members in Rice Reveals Their Roles in Reproductive Organ Identity Determination and Meristem Determinacy**  2850
Ludovico Dreni, Alessandro Pilatone, Dapeng Yun, Stefano Erreni, Alice Pajoro, Elisabetta Caporali, Dabing Zhang, and Martin M. Kater

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Editorial Office

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Generation of Signaling Specificity in *Arabidopsis* by Spatially Restricted 2864

Buffering of Ligand–Receptor Interactions [C](#)[W](#)[OA](#)

Emily B. Abrash, Kelli A. Davies, and Dominique C. Bergmann

RopGEF7 Regulates PLETHORA-Dependent Maintenance of the Root Stem 2880

Cell Niche in *Arabidopsis* [C](#)[W](#)[OA](#)

Min Chen, Huili Liu, Jixiang Kong, Yali Yang, Naichao Zhang, Ruijing Li, Jianbin Yue, Jiaqing Huang, Chuanyou Li, Alice Y. Cheung, and Li-zhen Tao

Keep an Eye on PPI: The Vacuolar-Type H⁺-Pyrophosphatase Regulates 2895

Postgerminative Development in *Arabidopsis* [C](#)[W](#)[OA](#)

Ali Ferjani, Shoji Segami, Gorou Horiguchi, Yukari Muto, Masayoshi Maeshima, and Hirokazu Tsukaya

Interaction of Antiparallel Microtubules in the Phragmoplast Is Mediated by 2909

the Microtubule-Associated Protein MAP65-3 in *Arabidopsis* [W](#)

Chin-Min Kimmy Ho, Takashi Hotta, Fengli Guo, Robert W. Roberson, Yuh-Ru Julie Lee, and Bo Liu

Physcomitrella Cyclin-Dependent Kinase A Links Cell Cycle Reactivation to 2924

Other Cellular Changes during Reprogramming of Leaf Cells [C](#)[W](#)[OA](#)

Masaki Ishikawa, Takashi Murata, Yoshikatsu Sato, Tomoaki Nishiyama, Yuji Hiwatashi, Akihiro Imai, Mina Kimura, Nagisa Sugimoto, Asaka Akita, Yasuko Oguri, William E. Friedman, Mitsuyasu Hasebe, and Minoru Kubo

Two Mechanosensitive Channel Homologs Influence Division Ring 2939

Placement in *Arabidopsis* Chloroplasts [W](#)

Margaret E. Wilson, Gregory S. Jensen, and Elizabeth S. Haswell

The Chloroplast Calcium Sensor CAS Is Required for Photoacclimation in 2950

Chlamydomonas reinhardtii [W](#)

Dimitris Petroutsos, Andreas Busch, Ingrid Janßen, Kerstin Trompelt, Sonja Verena Bergner, Stefan Weini, Michael Holtkamp, Uwe Karst, Jörg Kudla, and Michael Hippler

Photosystem II Supercomplex Remodeling Serves as an Entry Mechanism 2964

for State Transitions in *Arabidopsis* [C](#)[W](#)

Lars Dietzel, Katharina Bräutigam, Sebastian Steiner, Kristin Schöffler, Bernard Lepetit, Bernhard Grimm, Mark Aurel Schöttler, and Thomas Pfannschmidt

Cyanobacterial Lactate Oxidases Serve as Essential Partners in N₂ Fixation 2978

and Evolved into Photorespiratory Glycolate Oxidases in Plants [W](#)

Claudia Hackenberg, Ramona Kern, Jan Hüge, Lucas J. Stal, Yoshinori Tsuji, Joachim Kopka, Yoshihiro Shiraiwa, Hermann Bauwe, and Martin Hagemann

Plastid Uridine Salvage Activity Is Required for Photoassimilate Allocation 2991

and Partitioning in *Arabidopsis* [C](#)[W](#)

Mingjie Chen and Jay J. Thelen

Vacuolar Transport in Tobacco Leaf Epidermis Cells Involves a Single Route 3007






for Soluble Cargo and Multiple Routes for Membrane Cargo [W](#)


Francesca Bottanelli, Ombretta Foresti, Sally Hanton, and Jürgen Denecke

The *Arabidopsis* Deubiquitinating Enzyme AMSH3 Interacts with ESCRT-III 3026

Subunits and Regulates Their Localization [C](#)[W](#)

Anthi Katsiarimpa, Franziska Anzenberger, Nicole Schlager, Susanne Neubert, Marie-Theres Hauser, Claus Schwechheimer, and Erika Isono

- Combined Noninvasive Imaging and Modeling Approaches Reveal Metabolic Compartmentation in the Barley Endosperm**   3041
Hardy Rolletschek, Gerd Melkus, Eva Grafahrend-Belau, Johannes Fuchs, Nicolas Heinzl, Falk Schreiber, Peter M. Jakob, and Ljudmilla Borisjuk
- Elucidation of the Pathway to Astaxanthin in the Flowers of *Adonis aestivalis***   3055
Francis X. Cunningham and Elisabeth Gantt
- Medicago truncatula* CYP716A12 Is a Multifunctional Oxidase Involved in the Biosynthesis of Hemolytic Saponins**  3070
Maria Carelli, Elisa Biazzini, Francesco Panara, Aldo Tava, Laura Scaramelli, Andrea Porceddu, Neil Graham, Miriam Odoardi, Efsio Piano, Sergio Arcioni, Sean May, Carla Scotti, and Ornella Calderini

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